

Abstract

Apparatus for producing a flux of charge carriers

Apparatus for producing a flux of charge carriers that may be used in many
5 applications including imaging and lithography comprises an electron source which
includes an emitter with a tip radius of about one nanometre and a closely
configured extractor, together with a specimen for receiving an electron beam from
the source. The apparatus may operate in air under atmospheric conditions and at a
much reduced operating voltage.

10

(Figure 3)

Approved for Release